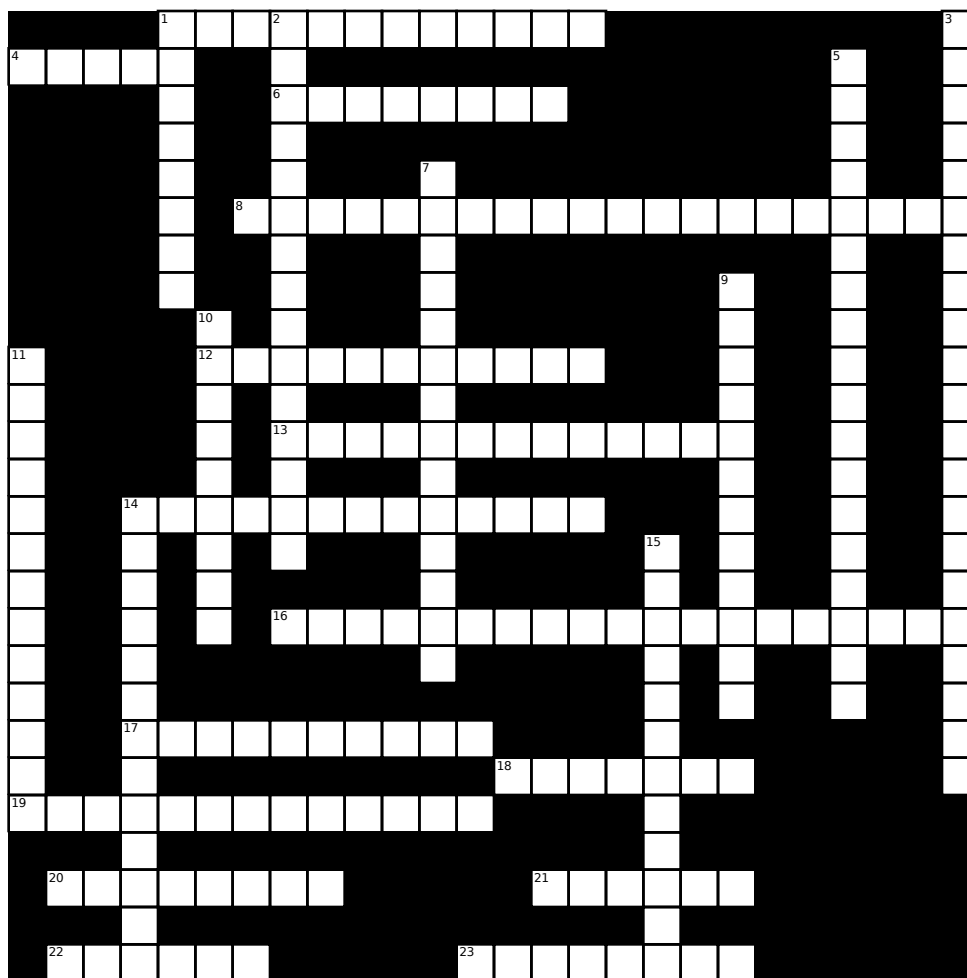


# Points of concurrency and Triangle Inequalities

Emily



## Across

- 1 the point of concurrency of the perpendicular bisectors of a triangle
- 4 the space between two intersecting lines
- 6 a point in the middle
- 8 an indirect proof in which one assumes that the statement to be proved is false (3 Words)
- 12 the point of concurrency of of the altitudes of a triangle
- 13 the angle between adjacent sides of a rectilinear figure (2 Words)
- 14 a triangle where all three angles are less than  $90^\circ$  (2 Words)
- 16 a triangle with three equal sides and angles (2 Words)
- 17 not equal
- 18 a line between two points
- 19 the angle between a side of a rectilinear figure and an adjacent side extended outward. (2 Words)
- 20 in a triangle, a segment from a vertex of the triangle to the line containing the opposite side and perpendicular to that side
- 21 in a triangle, a line segment with endpoints that are a vertex of a triangle and the midpoint of the side opposite the vertex
- 22 a meeting point of two lines that form an angle
- 23 the point of concurrency of the angle bisectors of a triangle

## Down

- 1 the point of concurrency of the medians of a triangle
- 2 three or more lines that intersect at a common point (2 Words)
- 3 in a triangle, a line, segment, or ray that passes through the midpoint of a side and is perpendicular to that side (2 Words)
- 5 the point where concurrent lines intersect (3 Words)
- 7 a triangle with one angle greater than  $90^\circ$  (2 Words)
- 9 a geometric theorem describing two triangles with congruent sides (2 Words)
- 10 equal
- 11 a triangle with one  $90^\circ$  angle (2 Words)
- 14 a ray that divides an angle into two congruent angles (2 Words)
- 15 center of gravity (2 Words)